

Department of Environmental Protection Bureau of Land & Water Quality Oct. 2000

O&M Newsletter

A monthly newsletter for wastewater discharge licensees, treatment facility operators, and associated persons

Free for the taking.

BOD Incubator, as is. Converted General Electric refrigerator - large capacity. Believed to be in working condition. First come, first serve, and first to haul it away gets it. Stored at the Hartland POTW, property of the Irving Tanning Company. Please call 938-4491, ext. 323 for more information.

Mickey Kuhns

For Practice

- 1. The jar test is used to determine the proper dosage for which chemical?
 - a. chlorine for disinfection
 - b. activated carbon for absorption of organic chemicals
 - c. polymer for sludge coagulation.
 - d. lime for pH control.
- 2. Which of the following is most resistant to disinfection?
 - a. Fecal Coliform
 - b. Salmonella
 - c. Protozoa
 - d. Spores
- 3. An operator who normally wastes 1200 gallons of sludge with a concentration of 4% is now able to pump sludge with a 5% concentration. How many gallons

should be pumped to remove the same amount of sludge solids?

- a. 580 gallons
- b. 820 gallons
- c. 960 gallons
- d. 1180 gallons
- 4. You notice a sour, septic odor coming from your secondary clarifiers and when you examine the return sludge, it is black. What would you do to fix this problem?
 - a. increase the return rate to reduce the sludge detention time in the clarifiers.
 - b. reduce the return rate to prevent septic sludge from harming the aeration basins.
 - c. increase the number of times the clarifiers are cleaned.
 - d. do nothing, this is a normal.

Dick Darling

Mercury Progress Survey

It's been a very busy year for both wastewater treatment plant operators and the Maine DEP dealing with the development of the mercury pollution prevention plans and establishing the interim mercury discharge limits. Lots of thought and effort have gone into these plans resulting in reductions in the amount of mercury discharged to

wastewater treatment systems and their receiving waters. In a continuing effort to comply with the mercury legislation passed in June of 1999, the Maine DEP will be surveying all of the facilities effected by the legislation to determine the progress they have made with their pollution prevention plans. This survey, which is the same one-page checklist used last year, will be mailed out in early November. Once all the surveys have been returned by early December, the results will be summarized by the DEP and reported to the Legislature in January.

In response to the work done on your pollution prevention plans, and your assistance in completing this survey, Maine DEP would like to thank all of you for your efforts to reduce the amount of mercury discharged to Maine's environment.

Sterling Pierce
Bureau of Land & Water Quality

EPA 200 CSO Program National Excellence Awards.

The department has been notified by U.S. EPA that The City of Saco took first place in the EPA 2000 Combined Sewer Overflow (CSO) Control Program National Excellence Awards. The award recognizes municipalities committed to protecting and improving the quality of the Nation's waters through outstanding implementation of the CSO Control Program.

The aim of the National Excellence Awards, created in 1991, is to heighten overall public awareness of wet weather flow control measures and to encourage public support of the programs that protect the operation of treatment facilities, the health and safety of municipal employees and the public, and the quality of the Nation's receiving waters.

The department has worked with the City for a number years developing their CSO program and nominated them for the award. We are very pleased to know that the City's program is getting the national recognition it deserves.

With Saco's first place award, Maine has more award winning CSO communities than any other state. Previous award winners are: Bangor, 1996 first place; Bath ,1996 second place; and Augusta Sanitary District, 1997 first place.

The 2000 CSO Control Program National Excellence Awards will be to presented to Saco October 12 at the national Water Environment Federation (WEF) conference to be held in Anaheim, California. For additional information please contact Ben Viola.

Ben Viola

UPCOMING TRAINING COURSES

Oct. 3,10,17,24,31 & Nov. 7, 2000 in Scarborough, ME, Stormwater Instructional Module - approved for 6 hours, sponsored by JETCC (207) 767-2649.

October 4, 11, 18 & 25, 2000 in Bangor, ME, NPDES Laboratory Class - approved for 16 hours, sponsored by MRWA (207) 729-6569

October 4, 2000, in Old Orchard Beach, ME. Hazard Communication Standard

1910.1200 – approved for 3 hours, sponsored by Maine Rural Water Association (207) 729-6569 *****

October 11, 2000, in East Vassalboro, ME, Hazard Communication Standard 1910.1200 – approved for 3 hours, sponsored by Maine Rural Water Association (207) 729-6569 *****

October 17, 2000 in Bangor, ME, Setting Up a Pump Maintenance Program - approved for 6 hours, sponsored by JETCC (207) 767-2649. *****

October 17, 2000, in Old Orchard Beach, ME, Electric Motors: Design, Installation & Maintenance – approved for 4 hours, sponsored by Maine Rural Water Association (207) 729-6569 *****

October 23, 2000, in Brunswick, ME, Wastewater Operator Certification Review Grade I/II/III – approved for 6 hours, sponsored by Maine Rural Water Association (207) 729-6569 *****

October 24, 2000, in Bangor, ME, Wastewater Operator Certification Review Grade I/II/III – approved for 6 hours, sponsored by Maine Rural Water Association (207) 729-6569 *****

October 24, 2000 in Augusta, ME, Hands-on Review of BOD/TSS & Settleability - approved for 6 hours, sponsored by JETCC (207) 767-2649. *****

October 25, 2000 in Brewer, ME, Belt Press Cleaning & Maintenance - approved for 6 hours, sponsored by JETCC (207) 767-2649.

November 1, 2000 in Portland, ME, Electrical Maintenance & Controls -

approved for 6 hours, sponsored by JETCC (207) 767-2649.

November 2, 2000 in Skowhegan, ME, Step by Step Basic Math Review - approved for 6 hours, sponsored by JETCC (207) 767-2649.

November 2, 2000, in Brunswick, ME, Wastewater Operator Certification Review Grade IV/V – approved for 6 hours, sponsored by Maine Rural Water Association (207) 729-6569

November 3, 2000, in Bangor, ME, Wastewater Operator Certification Review Grade IV/V – approved for 6 hours, sponsored by Maine Rural Water Association (207) 729-6569 *****

November 8, 2000 in Kittery, ME, SCADA Systems - approved for 6 hours, sponsored by JETCC (207) 767-2649.

November 8, 2000, in East Vassalboro, Electric Motors: Design, Installation & Maintenance – approved for 4 hours, sponsored by Maine Rural Water Association (207) 729-6569 *****

Nov. 15, 16 &17, 2000 in Westbrook, ME, WW Collection Systems w/ Optional Exam - approved for 13 hours, sponsored by JETCC (207) 767-2649.

November 28, 2000 in Augusta, ME, High Flow Management - approved for 6 hours, sponsored by JETCC (207) 767-2649.

December 5, 2000 Ellsworth, ME, Polymer Sealant Repair & Preventive Maintenance Systems Applications in WWTF's & Pump Stations - approved for 6 hours, sponsored by JETCC (207) 767-2649.

December 7, 2000 Augusta, ME, Oxidation Reduction Potential (ORP) approved for 6 hours, sponsored by JETCC (207) 767-2649.

December 12, 2000 Scarborough Laboratory Quality Control & Quality Assurance - approved for 6 hours, sponsored by JETCC (207) 767-2649.

Dick Darling

Answers to For Practice:

- 1. c Jar tests are used to find the best dose of polymer to use for conditioning sludge.
- 2. d fecal coliform bacteria are used as indicator organisms because they are present in human wastes and they are less likely to be killed by disinfectants than pathogenic bacteria.
- 3. c 1200 Gallons x .04 = 4800 ludge units/0.05 = 960 gallons
- 4. a. you should increase the return sludge rate to get the sludge out of the clarifiers and back to the aerobic aeration tanks. Without active aeration, the sludge will become anaerobic or septic in the clarifiers if it stays there too long. Septic sludge in the clarifiers is a sure sign that the sludge is spending too much time there and that the return rate should be increased.

Mercury Containing Thermostats

Recycling Information

In response to the problems of mercury contamination in Maine's environment. three thermostat manufacturers have banded together to form a company called the *Thermostat Recycling* Company (TRC). The purpose of this company is to handle the recycling of mercury containing thermostats. The way the *TRC* operates is for a \$15.00 deposit, a thermostat wholesaler can receive a plastic recycling bin to place at their place of business. Individuals and contractors may then place any mercury containing thermostats into the bin. Once the bin is full, the dealer simply seals the bin shut and mails it back to the TRC with the prepaid postage provided. In turn, the TRC will ship back an empty container. TRC recommends that each facility obtain two containers so that they will always have one on hand. If you have questions concerning how the program works, or what dealers are participating at this time, please contact the TRC at 703-841-3249 or 1-800-238-8192. More information, concerning the TRC and participating dealers, can be found on the Maine DEP internet site: http:/janus.state.me.us/dep/rwm/ hgthermo.htm.

Mercury Thermostat Recycling Participating Dealers

<u>Town</u>	<u>Company Name</u>	<u>Address</u>
Augusta	Redlon & Johnson	314 State Street
		Augusta, ME 04330
Bangor	Webber Supply Inc.	32 Thatcher Street
		Bangor, ME 04401
Bath	Redlon & Johnson	9 Redlon Road
		Bath, ME 04530
Caribou	FW Webb Co.	420 Main Street
		Caribou, ME 04736
Ellsworth	Chas. Foster Co., Inc.	55 Foster Street
		Ellsworth, ME 04605
Kennebunk	Roland's Plumbing	119 York Street
	Supply	Kennebunk, ME 04043
South	Webber Supply Inc.	17 Haskell Street
Portland		South Portland, ME 04

List current as of October 3, 2000